

Red Hat Certified Specialist in Cloud Infrastructure

Course Outline

1. Manage the Red Hat OpenStack Platform Control Plane

- Manage control plane services, backup, restore, and control overcloud operations.

2. Manage Infrastructure Security

- Handle secure services, file-based security with AIDE, and user security with integrated IdM back-end configuration.

3. Manage Project Organization

- Create domains, maintain token keys, and customize user roles for client organizations.

4. Manage Application Deployment Resources

- Create and customize images, flavors, and initialize instances during deployment.

5. Manage Storage in Red Hat OpenStack Platform

- Configure and manage Ceph and Swift storage clusters dedicated to OpenStack.

6. Manage Networking

- Configure Open Virtual Networking (OVN), manage shared networks, and monitor networking services.

7. Manage Compute Node Operations

- Administer compute nodes, manage resource capacity, and rebalance workloads across nodes.

8. Monitor Operations

- Implement the Service Telemetry Framework and manage logging for Red Hat OpenStack services and components.

9. Automate Cloud Application Deployment

- Write Heat orchestration templates, deploy applications with Ansible, and create load-balanced application stacks.

10. Troubleshoot Operations

- Diagnose core issues, trace Heat stack events, and troubleshoot deployment failures.